



PTO/SB/08A (08-03)

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/603,000
Filing Date	06/23/2003
First Named Inventor	David S. F. Young
Art Unit	1641
Examiner Name	
Attorney Docket Number	2056.020

Sheet 1 of 4

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
DB		US- 5,750,102	05/12/1998	L. Eisenbach et al	
		US- 4,861,581	08/29/1989	A. Epstein et al	
		US- 5,171,665	12/15/1992	I. Hellstrom et al	
		US- 5,484,596	01/16/1996	M. Hanna, Jr., et al	
		US- 5,693,763	12/02/1997	J. Codrington et al	
		US- 5,783,186	07/21/1998	T. Arakawa et al	
		US- 5,849,876	12/15/1998	P. Linsley et al	
		US- 5,869,268	02/09/1999	T. Kudo et al	
		US- 5,869,045	02/09/1999	I. Hellstrom et al	
		US- 5,780,033	07/14/1998	V. Torchilin et al	
		US- 6,180,357	01/30/2001	D. Young et al	
		US- 4,172,124	10/23/1979	H. Koprowski et al	
		US- 6,657,048	12/02/2003	D. Young et al	
		US- 2004/001789	01/01/2004	D. Young et al	
		US- 2002/041877	04/11/2002	D. Young et al	
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**FOREIGN PATENT DOCUMENTS**

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
DB		WO95/20401	08/03/1995	Trustees of Boston University		
DB		WO02/082076	10/17/2002	Merck Patent GmbH		
DB		WO03/055515	07/10/2003	Arius Research, Inc.		

Examiner Signature	<i>Emil B. B. B.</i>	Date Considered	4/13/06
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Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>			
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		Filing Date	06/23/2003		
		First Named Inventor	David S. F. Young		
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Sheet	2	of	4	Attorney Docket Number	2056.020

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
DB		D. HARRIS et al, "Serotherapy of cancer", Seminars in Oncology, 16(3):180-198 (June, 1989)	
1		H. DVORAK et al, "Structure of solid tumors and their vasculature: Implications for therapy with monoclonal antibodies", Cancer Cells, 3(3):77-85 (March, 1991)	
		S. ENGELHOLM et al, "Disaggregation of human solid tumours by combined mechanical and enzymatic methods", Br. J. Cancer, 51:93-98 (1985)	
		A. COSTA et al, "Implications of disaggregation procedures on biological representation of human solid tumours", Cell Tissue Kinet., 20:171-180 (1987)	
		S. DAIRKEE et al, "Partial enzymatic degradation of stroma allows enrichment and expansion of primary breast tumor cells", Cancer Research, 57:1590-1596 (April, 1997)	
		B. FRANZEN et al, "Nonenzymatic extraction of cells from clinical tumor material for analysis of gene expression by two-dimensional polyacrylamide gel electrophoresis", Electrophoresis, 14:1045-1053 (1993)	
		E. HOLZ et al, "Antibody-based immunotherapeutic strategies in colorectal cancer", Recent Results in Cancer Research, 142:381-400 (1996)	
		R. DILLMAN, "Antibodies as cytotoxic therapy", J. Clin. Oncol., 12(7):1497-1515 (July, 1994)	
		R. DILLMAN, "Monoclonal antibodies for treating cancer", Annals of Internal Medicine, 111:592-603 (1989)	
DB		M. DISIS et al, "HER-2/neu protein: a target for antigen-specific immunotherapy of human cancer", Advances in Cancer Research, 71:343-371 (1997)	

Examiner Signature	<i>Paul Shih</i>	Date Considered	4/13/04
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DB		A. BEGG et al, "Rapid fluorescence-based assay for radiosensitivity and chemosensitivity testing in mammalian cells in vitro", Cancer Research, 49:565-569 (February, 1989)	
		J. CRUSE et al, Illustrated Dictionary of Immunology, CRC Press, p. 280 (1995)	
		A. KNUTH et al, "ADCC reactivity of human melanoma cells with mouse monoclonal antibodies", Proc. Am. Assoc. Cancer Res., 25:1005 (March, 1984) Abstract only	
		J. HOROSZEWICZ et al, "Monoclonal antibodies to a new antigenic marker in epithelial prostatic cells and serum of prostatic cancer patients", Anticancer Research, 7:927-936 (1987)	
		D. HERLYN et al, "Monoclonal anticolon carcinoma antibodies in complement-dependent cytotoxicity", Int. J. Cancer, 27:769-774 (1981)	
		V. KRAVTSOV et al, "Automated monitoring of apoptosis in suspension cell cultures", Laboratory Investigation, 74(2):557-570 (1996)	
		L. HARTWELL et al, "Integrating genetic approaches into the discovery of anticancer drugs", Science, 278:1064-1068 (November, 1997)	
		B. CURTI, "Physical barriers to drug delivery in tumors", Critical Reviews in Oncology/Hematology, 14:29-39 (1993)	
		R. JAIN, "Barriers to drug delivery in solid tumors", Scientific American, 271(1):58-65 (July, 1994)	
DB		T. GURA, "Systems for identifying new drugs are often faulty", Science, 278:1041-1042 (November, 1997)	

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DB		G. DERMER, "Another anniversary for the war on cancer", Bio/Technology, 12:320 (March, 1994)	
		R. FRESHNEY, "Culture of animal cells", a Manual of Basic Technique, Alan R. Liss, Inc., New York, p. 3 (1983)	
		T. HSU, "Karyology of cells in culture - a preparation and analysis of karyotypes and idiograms", in Tissue Culture Methods and Applications, eds. Kruse and Patterson, Academic Press, New York, pp. 764-767 (1973)	
		M. EMBLETON, "Monoclonal antibodies to osteogenic sarcoma antigens", Immunol. Ser., 23:181-207 (1984)	
		H. DREXLER, "Recent results on the biology of Hodgkin and Reed-Sternberg cells", Leukemia and Lymphoma, 9:1-25 (1993)	
		C. BADGER et al, "Prospects for monoclonal antibody therapy of leukemia and lymphoma", Cancer, 58:584-589 (1986)	
		E. BOVEN et al, "Monoclonal antibodies in cancer treatment: where do we stand after 10 years?", Radiotherapy and Oncology, 5:109-117 (1986)	
		A. EPSTEIN et al, "Two new monoclonal antibodies, Lym-1 and Lym-2, reactive with human B-lymphocytes and derived tumors, with immunodiagnostic and immunotherapeutic potential", Cancer Research, 47:830-840 (1987)	
DB		K. FOON, "Biological therapy of cancer", Breast Cancer Research & Treatment, 7:5-14 (1986)	

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